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together] with uniform weighting and without relative phase delays so as to form respective single channel outputs.

2. (Amended) A [data processor as claimed in claim 1] sonar detection system comprising:

a linear towed sonar array comprising a plurality of modules joined end to end, each module comprising a flexible fluid-filled hose, each hose including a plurality of linearly spaced hydrophones located within the hose by diaphragms at each end of each hose; and

data processor means for receiving output signals from each hydrophone in the array and for adding together at low frequencies the outputs from all the hydrophones in each respective module of the towed array with uniform weighting and without relative phase delays so as to form respective single channel outputs, wherein beamforming is done by providing phase delays in the processor such that the weighted sum of a number of module outputs can be formed by means of phase delays appropriate to a selected beam direction.

Claim 3, line 1, delete "data processor" and insert  
--sonar detection system--.

4. (Amended) A sonar detection system comprising a linear towed sonar array [of the type] comprising a plurality of modules joined end to end and each module comprising a flexible fluid-filled hose housing a plurality of linearly spaced hydrophones located within the hose by diaphragms at each end of each hose; and

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spaced hydrophones, and a data processor comprising means to receive signals from each sensor in the array and wherein at low frequencies the outputs from all the hydrophones in each respective module of the towed array are added together with uniform weighting and without relative phase delays so as to form respective single channel outputs and wherein the hose material is selected such that the Poisson ratio is substantially equal to 0.5.

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--8. A sonar detection system as claimed in Claim 5 further including an accelerometer means, in each module coupling, for producing an acceleration signal wherein said data processor means, responsive to said acceleration signal, includes means for cancelling vibration noise in said hydrophone outputs.--

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REMARKS

Claims 1 through 7 stand rejected in the outstanding Official Action. Claims 1 through 4 have been amended and newly written claim 8 offered for consideration. Therefore, claims 1 through 8 are the only claims remaining in the application.

Applicant appreciates the indication that the informal drawings originally filed are suitable for examination purposes only. Applicant encloses herewith formal drawings which are believed to meet the Chief Draftsman requirements as expressed in PTO Form 948 attached to Paper No. 6

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